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### 1 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

 November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**
**Publisher:** IBM Press

 Full text available:  [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

### 2 Real-time shading



Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Mitchell, Randi Rost

 August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**
**Publisher:** ACM Press

 Full text available:  [pdf\(7.39 MB\)](#) Additional Information: [full citation](#), [abstract](#)

Real-time procedural shading was once seen as a distant dream. When the first version of this course was offered four years ago, real-time shading was possible, but only with one-of-a-kind hardware or by combining the effects of tens to hundreds of rendering passes. Today, almost every new computer comes with graphics hardware capable of interactively executing shaders of thousands to tens of thousands of instructions. This course has been redesigned to address today's real-time shading capabili ...

### 3 Risks to the public: Risks to the public



Peter G. Neumann

 March 2006 **ACM SIGSOFT Software Engineering Notes**, Volume 31 Issue 2

**Publisher:** ACM Press

 Full text available:  [pdf\(144.71 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Edited by Peter G. Neumann (Risks Forum Moderator and Chairman of the ACM Committee on Computers and Public Policy), plus personal contributions by others, as indicated. Opinions expressed are individual rather than organizational, and all of the usual disclaimers apply. We address problems relating to software, hardware, people, and other circumstances relating to computer systems. To economize on space, we include pointers to items in the online Risks Forum: (R i j) denotes RISKS vol i number ...

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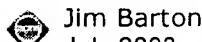
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**4 GLARE: A Grid Activity Registration, Deployment and Provisioning Framework**

Mumtaz Siddiqui, Alex Villazon, Jürgen Hofer, Thomas Fahringer

November 2005 **Proceedings of the 2005 ACM/IEEE conference on Supercomputing SC '05****Publisher:** IEEE Computer SocietyFull text available:  pdf(1.43 MB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Resource management is a key concern for implementing effective Grid middleware and shielding application developers from low level details. Existing resource managers concentrate mostly on physical resources. However, some advanced Grid programming environments allow application developers to specify Grid application components at high level of abstraction which then requires an effective mapping between high level application description (activity types) and actual deployed software components ...

**5 Features: From Server Room to Living Room**

Jim Barton

July 2003 **Queue**, Volume 1 Issue 5**Publisher:** ACM PressFull text available:  pdf(1.85 MB)  Additional Information: [full citation](#), [abstract](#), [index terms](#) html(39.52 KB)

The open source movement, exemplified by the growing acceptance of Linux, is finding its way not only into corporate environments but also into a home near you. For some time now, high-end applications such as software development, computer-aided design and manufacturing, and heavy computational applications have been implemented using Linux and generic PC hardware.

Now, Linux and open source software are making inroads at the other end of the computing spectrum. TiVo, the fir ...

**6 Experience report: using RESOLVE/C++ for commercial software**

Joseph E. Hollingsworth, Lori Blankenship, Bruce W. Weide

November 2000 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 8th ACM SIGSOFT international symposium on Foundations of software engineering: twenty-first century applications SIGSOFT '00/FSE-8**, Volume 25 Issue 6**Publisher:** ACM PressFull text available:  pdf(1.06 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Academic research sometimes suffers from the "ivory tower" problem: ideas that sound good in theory do not necessarily work well in practice. An example of research that potentially could impact practice over the next few years is a novel set of component-based software engineering design principles, known as the *RESOLVE discipline*. This discipline has been taught to students for several years [23], and previous papers (e.g., [24]) have reported on student-sized software pr ...

**Keywords:** component-based software engineering, design discipline, design-by-contract, generic, software reuse, swapping, template

**7 Proceedings of the SIGNUM conference on the programming environment for development of numerical software**March 1979 **ACM SIGNUM Newsletter**, Volume 14 Issue 1**Publisher:** ACM PressFull text available:  pdf(5.02 MB) Additional Information: [full citation](#)**8 Status report of the graphic standards planning committee**

Computer Graphics staff

August 1979 **ACM SIGGRAPH Computer Graphics**, Volume 13 Issue 3**Publisher:** ACM PressFull text available: [pdf\(15.01 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#)

- 9 [Link and channel measurement: A simple mechanism for capturing and replaying wireless channels](#)



Glenn Judd, Peter Steenkiste

August 2005 **Proceeding of the 2005 ACM SIGCOMM workshop on Experimental approaches to wireless network design and analysis E-WIND '05****Publisher:** ACM PressFull text available: [pdf\(6.06 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Physical layer wireless network emulation has the potential to be a powerful experimental tool. An important challenge in physical emulation, and traditional simulation, is to accurately model the wireless channel. In this paper we examine the possibility of using on-card signal strength measurements to capture wireless channel traces. A key advantage of this approach is the simplicity and ubiquity with which these measurements can be obtained since virtually all wireless devices provide the req ...

**Keywords:** channel capture, emulation, wireless

- 10 [Risks to the public: Risks to the public](#)



Peter G. Neumann

July 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 4**Publisher:** ACM PressFull text available: [pdf\(151.77 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Edited by Peter G. Neumann (Risks Forum Moderator and Chairman of the ACM Committee on Computers and Public Policy), plus personal contributions by others, as indicated. Opinions expressed are individual rather than organizational, and all of the usual disclaimers apply. We address problems relating to software, hardware, people, and other circumstances relating to computer systems. To economize on space, we include pointers to items in the online Risks Forum: (R i j) denotes RISKS vol.i number ...

- 11 [Illustrative risks to the public in the use of computer systems and related technology](#)



Peter G. Neumann

January 1996 **ACM SIGSOFT Software Engineering Notes**, Volume 21 Issue 1**Publisher:** ACM PressFull text available: [pdf\(2.54 MB\)](#) Additional Information: [full citation](#)

- 12 [Software/modelware tutorials b: Simkit: component based simulation modeling with Simkit](#)

Arnold Buss

December 2002 **Proceedings of the 34th conference on Winter simulation: exploring new frontiers****Publisher:** Winter Simulation ConferenceFull text available: [pdf\(283.24 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper demonstrates how to use Simkit to create Discrete Event Simulation models using a component framework. The component framework is based on a listener design pattern especially useful for simulation models. The objects created are called Listener Event Graph Objects, so the component framework is called LEGO. Simkit is an Open Source package written in Java.

- 13 [Frontmatter \(TOC, Letters, Election results, Software Reliability Resources!, Computing Curricula 2004 and the Software Engineering Volume SE2004, Software Reuse Research, ICSE 2005 Forward\)](#)

July 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(6.19 MB\)](#) Additional Information: [full citation](#), [index terms](#)



- 14 [Fast and flexible application-level networking on exokernel systems](#)

Gregory R. Ganger, Dawson R. Engler, M. Frans Kaashoek, Hector M. Briceño, Russell Hunt, Thomas Pinckney

February 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(500.67 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Application-level networking is a promising software organization for improving performance and functionality for important network services. The Xok/ExOS exokernel system includes application-level support for standard network services, while at the same time allowing application writers to specialize networking services. This paper describes how Xok/ExOS's kernel mechanisms and library operating system organization achieve this flexibility, and retrospectively shares our experiences an ...

**Keywords:** Extensible systems, OS structure, fast servers, network services



- 15 [Specification and implementation of exceptions in workflow management systems](#)

Fabio Casati, Stefano Ceri, Stefano Paraboschi, Giuseppe Pozzi

September 1999 **ACM Transactions on Database Systems (TODS)**, Volume 24 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(250.40 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Although workflow management systems are most applicable when an organization follows standard business processes and routines, any of these processes faces the need for handling exceptions, i.e., asynchronous and anomalous situations that fall outside the normal control flow. In this paper we concentrate upon anomalous situations that, although unusual, are part of the semantics of workflow applications, and should be specified and monitored coherently; in most real-life applica ...

**Keywords:** active rules, asynchronous events, exceptions, workflow management systems



- 16 [Alternative Software Stacks for OGSA-based Grids](#)

Marty Humphrey, Glenn Wasson, Yuliyan Kiryakov, Sang-Min Park, David Del Vecchio, Norm Beekwilder

November 2005 **Proceedings of the 2005 ACM/IEEE conference on Supercomputing SC '05**

Publisher: IEEE Computer Society

Full text available:  [pdf\(341.61 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)



The Open Grid Services Architecture (OGSA) has been a major step forward for Grid Computing, but its de facto reliance on the Web Services Resource Framework (WSRF) and WS-Notification have left some in the community questioning if the Grid software and protocols have become too complex. In this paper, we consider the feasibility of an "alternative" software stack, based on WS-Transfer and WS-Eventing. We compare and evaluate WSRF/WS-Notification vs. WS-Transfer/WSEventing, first via a "hello wo ...

**17 The KScalar simulator**

 J. C. Moure, Dolores I. Rexachs, Emilio Luque

March 2002 **Journal on Educational Resources in Computing (JERIC)**, Volume 2 Issue 1

**Publisher:** ACM Press

Full text available:  pdf(493.35 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Modern processors increase their performance with complex microarchitectural mechanisms, which makes them more and more difficult to understand and evaluate. KScalar is a graphical simulation tool that facilitates the study of such processors. It allows students to analyze the performance behavior of a wide range of processor microarchitectures: from a very simple in-order, scalar pipeline, to a detailed out-of-order, superscalar pipeline with non-blocking caches, speculative execution, and comp ...

**Keywords:** Education, pipelined processor simulator

**18 Magnatune, an open music experiment**

John Buckman

February 2004 **Linux Journal**, Volume 2004 Issue 118

**Publisher:** Specialized Systems Consultants, Inc.

Full text available:  html(20.79 KB) Additional Information: [full citation](#), [abstract](#)

Even if you're not reinventing the music business, what can you do to help your Web site help customers?

**19 A 50-Gb/s IP router**

Craig Partridge, Philip P. Carvey, Ed Burgess, Isidro Castineyra, Tom Clarke, Lise Graham, Michael Hathaway, Phil Herman, Allen King, Steve Kohalmi, Tracy Ma, John Mcallen, Trevor Mendez, Walter C. Milliken, Ronald Pettyjohn, John Rokosz, Joshua Seeger, Michael Sollins, Steve Storch, Benjamin Tober, Gregory D. Troxel

June 1998 **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 3

**Publisher:** IEEE Press

Full text available:  pdf(133.28 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

**Keywords:** data communications, internetworking, packet switching, routing

**20 Predictability requirements of a soft modem**

 Michael B. Jones, Stefan Saroiu

June 2001 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2001 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '01**, Volume 29 Issue 1

**Publisher:** ACM Press

Full text available:  pdf(1.53 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Soft Modems use the main processor to execute modem functions traditionally performed by hardware on the modem card. To function correctly, soft modems require that ongoing signal processing computations be performed on the host CPU in a timely manner. Thus, signal processing is a commonly occurring background real-time application---one running on systems that were not designed to support predictable real-time execution. This paper presents a detailed study of the performance characteristics ...

**Keywords:** CPU scheduling, Rialto, Rialto/NT, Windows 2000, Windows NT, open real-time system, real-time, signal processing, soft devices, soft modem

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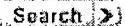
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IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

 1. The design of an architecture for software agents on mobile platforms

Saenchai, K.; Benedicenti, L.; Paranjape, R.;

[Electrical and Computer Engineering, 2004, Canadian Conference on](#)

Volume 3, 2-5 May 2004 Page(s):1389 - 1392 Vol.3

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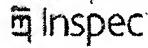
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